



(19)

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(11)

EP 0 773 270 A3

(12)

## EUROPEAN PATENT APPLICATION

(88) Date of publication A3:  
03.12.1997 Bulletin 1997/49

(51) Int Cl<sup>6</sup>: C09G 1/02, H01L 21/302

(43) Date of publication A2:  
14.05.1997 Bulletin 1997/20

(21) Application number: 96308126.0

(22) Date of filing: 08.11.1996

(84) Designated Contracting States:  
DE FR GB IT

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(30) Priority: 10.11.1995 JP 293114/95

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### (54) Polishing slurries and a process for the production thereof

(57) A polishing slurry comprises a silica-dispersed solution obtained by dispersing, in an aqueous solvent, a fumed silica having an average primary particle size of from 5 to 30 nm, the silica-dispersed solution exhibiting a light scattering index (n) of from 3 to 6 at a silica concentration of 1.5% by weight, and the fumed silica dispersed therein having an average secondary particle size of from 30 to 100 nm on the weight basis. The pol-

ishing slurry is produced by pulverizing, using a high-pressure homogenizer, a silica-dispersed solution obtained by dispersing a fumed silica in an aqueous solvent, so that the fumed silica possesses an average secondary particle size of from 30 to 100 nm on the weight basis. The polishing slurry is used for polishing semiconductor wafers and inter-layer dielectric in an IC process.



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## EUROPEAN SEARCH REPORT

Application Number

DOCUMENTS CONSIDERED TO BE RELEVANT									
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)						
A	WO 93 22103 A (RODEL, INC.) * claims 1-26 *	1-12	C09G1/02 H01L21/302						
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)						
			C09G H01L						
<p>The present search report has been drawn up for all claims</p> <table border="1"> <tr> <td>Place of search</td> <td>Date of completion of the search</td> <td>Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>17 September 1997</td> <td>Glanddier, A</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	17 September 1997	Glanddier, A
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THE HAGUE	17 September 1997	Glanddier, A							
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document							
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document									